

Contents of Volume 143

Vol. 143 No. 1

The use of AFM for direct force measurements between expandable fluorine mica S. Nishimura, M. Kodama, H. Noma, K. Inoue and H. Tateyama (Saga, Japan)	1
Substrate-induced coagulation of carbon black on gelatine-modified printed wiring board surfaces. Part 1. Gelatine adsorption on to printed wiring board surfaces M. Bele, S. Pejovnik (Ljubljana, Slovenia), J.O. Besenhard and V. Ribitsch (Graz, Austria)	17
Adsorption of safranin-O on hydrophilic and hydrophobic glass surfaces G. Atun, G. Hisarlı and M. Tunçay (Istanbul, Turkey)	27
Dispersed/flocculated size characterization of alumina particles in highly concentrated slurries by ultrasonic attenuation spectroscopy S.-i. Takeda (Okayama, Japan) and P.J. Goetz (Mt. Kisco, NY, USA)	35
An investigation of the critical thickness of film rupture and drainage phenomena using dual wavelength ellipsometry D.G. Goodall, M.L. Gee, G. Stevens, J. Perera (Victoria, Australia) and D. Beaglehole (Wellington, New Zealand)	41
Probing recognition process between an antibody and an antigen using atomic force microscopy P.B. Chowdhury and P.F. Luckham (London, UK)	53
Solubilization behavior of mixed reverse micelles: effect of surfactant component, electrolyte concentration and solvent D. Liu, J. Ma, H. Cheng and Z. Zhao (Beijing, People's Republic of China)	59
Dynamic light scattering and electrokinetic potential of bis(quaternary ammonium bromide) surfactant micelles as the function of the alkyl chain length M. Pisárčik, M. Dubničková, F. Devínsky, I. Lacko (Bratislava, Slovakia) and J. Škvarla (Košice, Slovakia)	69
Comparison of micellar ultrafiltration and solvent extraction for the removal of copper ions from aqueous solutions M. Hebrant, N. Francois and C. Tondre (Vandoeuvre-les-Nancy, France)	77
Determination of the first and second CMCs of surfactants by adsorptive voltammetry C. Ma (Jinan, China/Lanzhou, China), G. Li, Y. Xu (Jinan, China), H. Wang (Lanzhou, China) and X. Ye (Jinan, China)	89
Fractal description of partially mobile single gas adsorption on energetically homogeneous solid adsorbent J.K. Garbacz (Bydgoszcz, Poland)	95
Kinetic study of keratin cystine reduction in W/O microemulsion media M.P. Savelli (Compiègne, France/Amiens, France), C. Solans (Barcelona, Spain), E. Rodenas (Alcalá de Henares, Spain), R. Pons (Barcelona, Spain), M. Clausse (Compiègne, France) and P. Erra (Barcelona, Spain)	103
Partition coefficient of amphiphilic hemicyanine dyes between the aqueous and the micellar phase of sodium dodecyl sulfate by differential absorbance spectroscopy S.S. Shah, G.M. Laghari, K. Naeem and S.W.H. Shah (Islamabad, Pakistan)	111
Predicting equilibrium constants for ion exchange of proteins — a colloid science approach W.R. Bowen, L.-C. Pan and A.O. Sharif (Swansea, UK)	117
Book reviews	133

In memorium to Professor Paul Joos	138
Adsorption of surfactants and proteins at fluid interfaces	
V.B. Fainerman, E.H. Lucassen-Reynders and R. Miller (Berlin Aldershof, Germany)	141
Dynamic surface elasticity of surfactant solutions	
B.A. Noskov (Stariy Petergof, Russia) and G. Loglio (Firenze, Italy)	167
Nucleation and growth of three-dimensional aggregates in supersaturated monolayers at the air-water interface: constant surface pressure relaxation of methyl stearate	
D. Vollhardt (Berlin, Germany)	185
Contact angle measurements by axisymmetric drop shape analysis and an automated polynomial fit program	
O.I. del Río, D.Y. Kwok, R. Wu, J.M. Alvarez and A.W. Neumann (Ontario, Canada)	197
Dilatational rheology of protein + non-ionic surfactant films at air-water and oil-water interfaces	
B.S. Murray, A. Ventura and C. Lallemand (Leeds, UK)	211
Adsorbed and spread films of bovine milk xanthine oxidase at the air-water interface	
D. Kristensen (Copenhagen, Denmark), T. Nylander (Lund, Sweden), J.T. Rasmussen (Aarhus, Denmark), M. Paulsson (Lund, Sweden) and K.S. Birdi (Copenhagen, Denmark)	221
Adsorption of alkyl dimethyl phosphine oxides at the solution/air interface	
A.V. Makievski (Berlin, Germany/Donetsk, Ukraine) and D.O. Grigoriev (Berlin, Germany/Petrodvoretz, Russia)	233
Non-diffusional adsorption dynamics of surfactants at the air/water interface: adsorption barrier or non- equilibrium surface layer	
V.B. Fainerman, S.A. Zholob (Donetsk, Ukraine), R. Miller (Berlin-Adlershof, Germany) and P. Joos (Antwerpen, Belgium)	243
Dilatational viscoelasticity of surfactant monolayers	
F. Monroy, J.G. Kahn and D. Langevin (Pessac, France)	251
Surface light scattering from cationic surfactant films	
J. Eastoe and D. Sharpe (Bristol, UK)	261
The generalization of the Sutherland equation for continuously deforming surfaces	
P. Joos and P. Petrov (Wilrijk, Belgium)	273
Model of the quasi-monodisperse micelles with application to the kinetics of micellization, adsorption and diffusion in surfactant solutions and thin liquid films	
C.D. Dushkin (Tokyo, Japan)	283
Measurements of interfacial properties with the axisymmetric bubble-shape analysis technique: effects of vibrations	
G. Loglio, P. Pandolfini, U. Tesei (Florence, Italy) and B. Noskov (St. Petersburg, Russia)	301
Dynamic surface tension of aqueous alkyl dimethyl phosphine oxide solutions. Effect of the alkyl chain length	
E.V. Aksenenko (Kiev, Ukraine), A.V. Makievski, R. Miller (Berlin-Adlershof, Germany) and V.B. Fainerman (Donetsk, Ukraine)	311
Sedimentation of monodisperse magnetic particles as studied by means of time-domain dielectric spectroscopy	
B.H. Pettersen, T. Skodvin and J. Sjöblom (Bergen, Norway)	323
Derivation of a general kinetic equation for transfer-controlled adsorption at liquid interfaces using Statistical Rate Theory	
P. Chen and A.W. Neumann (Toronto, Canada)	331
Analysis of electrokinetic effects on the liquid flow in rectangular microchannels	
C. Yang and D. Li (Alberta, Canada)	339
Existence of charged droplets in a saturated atmosphere containing polluting molecules. A model for clouds, mists and spindrifts	
A. Sanfeld (Marseille, France) and J.D. Sylvain (Nice, France)	355
Unusually low dynamic surface tensions of aqueous solutions of sodium myristate	
X. Wen, K.C. McGinnis and E.I. Franses (West Lafayette, IN, USA)	371
Bubble formation in maximum bubble pressure measuring systems employing a gas reservoir of limited volume	
V.L. Koval'chuk, V.B. Fainerman (Kiev, Ukraine), R. Miller (Berlin-Adlershof, Germany) and S.S. Dukhin (Kiev, Ukraine)	381

The use of overflowing cylinder technique to measure stagnant surface behaviour	
A. Prins, F.J.G. Boerboom and H.K.A.I. van Kalsbeek	395
A remark on the dependence of foam lamella stability on the geometric structure of phosphine oxide surfactants	
K. Lunkenheimer (Berlin, Germany), K. Malysa (Cracow, Poland) and K.-D. Wantke (Berlin, Germany)	403
Interfacial and emulsion stabilising properties of amphiphilic water-soluble poly(ethylene glycol)-poly(lactic acid) copolymers for the fabrication of biocompatible nanoparticles	
R. Gref (Nancy, France), V. Babak (Moscow, Russia/Vandoeuvre, France), P. Bouillot (Nancy, France), I. Lukina, M. Bodorev (Moscow, Russia) and E. Dellacherie (Nancy, France)	413
The application of the tensiograph <i>D</i> -functions to quality control in whiskey manufacture	
N.D. McMillan, V. Lawlor, J. Nolan, W.Y. Lo, R. Harnedy and M. O'Neill (Carlow, Ireland)	421
Effect of motion on lifetime of bubbles at <i>n</i> -butanol solution surface	
B. Jachimska, P. Warszyński and K. Malysa (Kraków, Poland)	429
Dynamic interfacial tensiometry of biologic liquids — does it have an impact on medicine	
V.N. Kazakov, O.V. Sinyachenko, D.V. Trukhin (Donetsk, Ukraine) and U. Pison (Berlin, Germany)	441
Protein adsorption isotherms studied by axisymmetric drop shape analysis	
A.V. Makievski (Berlin-Adlershof, Germany/Donetsk, Ukraine), R. Wüstneck (Potsdam, Germany), D.O. Grigoriev (Berlin-Adlershof, Germany/St. Petersburg, Russia), J. Krägel (Berlin-Adlershof, Germany) and D.V. Trukhin (Donetsk, Ukraine)	461
Equilibrium surface tensions and surface potentials of some fatty acids	
B. Neys and P. Joos (Wilrijk, Belgium)	467
The importance of the monolayer structure in bidimensional miscibility in mixed films	
C.C. Sánchez, J. de la Fuente Fera and J.M.R. Patino (Sevilla, Spain)	477
Micro-phase separation in spread monolayers of trichloro(octadecyl)silane and its mixtures with a partially fluorinated silazane derivative	
K.-i. Iimura and T. Kato (Utsunomiya, Japan)	491
Effect of chain length on equilibrium and dynamic surface tension of spread monolayers of aqueous alcohols	
S.H. Myrick and E.I. Franses (West Lafayette, IN, USA)	503
Relaxation studies of surfactant adsorption layers at the liquid/air interface by a funnel method	
O. Senkel, R. Miller (Berlin, Germany) and V.B. Fainerman (Donetsk, Ukraine)	517
<i>Author Index</i>	529
<i>Subject Index</i>	531
<i>Volume contents</i>	535